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(56) Documents cited by ISA

EP A 0150126 EP A 0090898
EP A 0125023 EP A 0068763
EP A 0120694 WO A 83/03971
EP A 0105521 WO A 84/00382

Chemical Abstracts, volume 95, no. 4, 27 July 1981,
page 363, abstract 30711m

Nature, 314 no. 6010, April 1985, pages 452-454

Nature, 314, no. 6008, 21 March 1985, pages 268-270

Nature 312, no. 5995, December 1984, pages 643-646

Nature 312, no. 5995, December 1984, pages 604-608

(58) Field of search by ISA

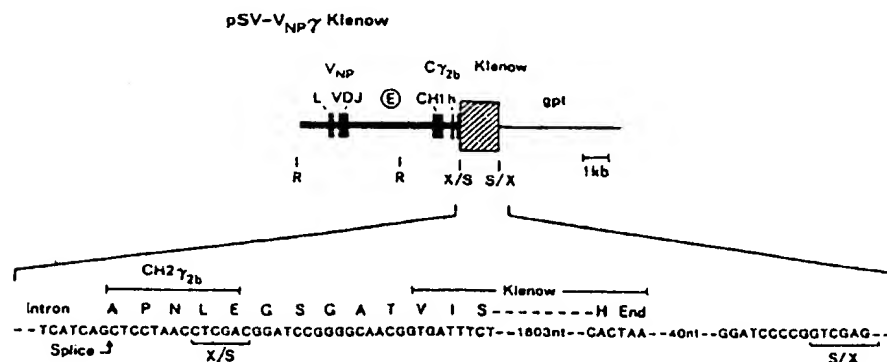
IPC⁴ C12N; C12P

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(54) Production of chimeric antibodies

(57) A process for the production of a chimeric antibody, comprising: a) preparing a replicable expression vector including a suitable promoter operably linked to a DNA sequence comprising a first path which encodes at least the variable region of the heavy or light chain of an Ig molecule and a second part which encodes at least part of a second protein: b) if necessary, preparing a replicable expression vector including a suitable promoter operably linked to a DNA sequence which encodes at least the variable region of a complementary light or heavy chain respectively of an Ig molecule; c) transforming an immortalised mammalian cell line with the or both prepared vectors; and d) culturing said transformed cell line to produce the chimeric antibody; chimeric antibodies produced by this process; and plasmids and transformed cell lines used in the process.



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